CLAIMS

	1.	Integrated biosensor and simulation system comprising:	
		a sensor for sensing a biological target to generate a signal; and	
5		a simulator for using the signal and a model of the target to generate a therapeutic	
	or dia	gnostic output.	
	2.	The system of claim 1 wherein:	
		the sensor is reconfigurable by the simulator.	
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	3.	The system of claim 1 wherein:	
		the sensor senses a food material for consumption by the biological target to	
	ge	generate a second signal, the simulator further using the second signal to generate the	
	therapeutic or diagnostic output.		
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	4.	The system of claim 1 wherein:	
		the simulator generates the output according to a regulatory condition.	
	5.	The system of claim 1 wherein:	
20		the sensor couples to the simulator via a programmable switch.	
	6.	Automated sensor and simulation method comprising the steps of:	

sensing a biological target to generate a signal; and

simulating using the signal and a model of the target to generate a therapeutic or diagnostic output.

- 7. The method of claim 6 wherein:
- 5 a simulator for simulating reconfigures a sensor for sensing.
 - 8. The method of claim 7 wherein:

the sensor senses a food material for consumption by the biological target to generate a second signal, the simulator further using the second signal to generate the therapeutic or diagnostic output.

- 9. The method of claim 7 wherein:
 - the simulator generates the output according to a regulatory condition.
- 15 10. The method of claim 7 wherein:

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the sensor couples to the simulator via a programmable switch.